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**(54) CONTROL DEVICE FOR
VEHICLE**

(57) Abstract:

PURPOSE: To prevent a vehicle from being abruptly changed in behavior, and thereby enhance control stability by using an estimated value by a lateral acceleration estimating means in place of the detected value by a lateral acceleration detector when said detector fails, thereby keeping up with the movement control for a vehicle.

CONSTITUTION: The lateral acceleration of a car body is detected by a detector A, and the command value controlling the movement of a vehicle is concurrently operated by a means B based on the detected value. In this case, the vehicle speed and the steering angle are detected respectively by respective means C and D, and based on these detected values, the lateral acceleration of the car body is concurrently estimated by a means E. On the other hand, it is

judged by a means F whether or not the detector A fails. When the detector A is judged to have failed, the detected value by the detector A is switched over to the estimated value made by the means E by a means G. Namely, when the detected value for acceleration is not obtained, controlling the movement of the vehicle is kept on based on the estimated value for acceleration. This constitution can thereby prevent the vehicle from being abruptly changed in behavior, and also enhance control stability and the like.

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